WHAT IS CLAIMED IS:

1	1. A glow plug for an internal combustion engine, comprising:
2	a cylindrical plug case having a rearward-facing sealing face formed on
3	an inner surface thereof;
4	a plug body held in the plug case, the plug body including:
5	a cylindrical housing having a sealing portion engaged onto the sealing
6	face of the plug case to form an airtight seal between the plug case and the
7	housing;
8	a sheath having a rear end portion airtightly fixed in a front end portion
9	of the housing;
10	a heater disposed in the sheath and generating heat upon energization
11	thereof; and
12	a center electrode disposed in the housing and having a rear end portion
13	thereof projecting from the housing, the center electrode being electrically
14	connected with the heater and mechanically connected with at least one of the
15	housing, the sheath and the heater so as to become axially displaced in response to
16	variations in engine combustion pressure; and
17	a combustion pressure sensor arranged between a rear end portion of the
18	plug case and the rear end portion of the center electrode and having a
19	pressure-sensitive element that converts an axial displacement of the center
20	electrode into an electrical signal for detection of the variations in engine
21	combustion pressure.
1	2. A glow plug according to Claim 1,
2	the plug case having an inward protrusion protruding radially inwardly
3	from the rear end portion of the plug case;
4	the center electrode having an outward protrusion protruding radially
5	outwardly from the rear end portion of the center electrode; and
6	the pressure-sensitive element being placed between a front surface of the

inward protrusion and a rear surface of the outward protrusion.

- 1 3. A glow plug according to Claim 1,
- 2 the sealing face of the plug case tapering toward to a front end of the plug
- 3 case;
- 4 the sealing portion of the housing having a sealing face tapering toward a
- 5 front end of the housing and being engaged with the sealing face of the plug case;
- 6 and

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- 7 the glow plug further comprising a seal member held between the sealing
- 8 face of the plug case and the sealing face of the housing.
- 1 4. A glow plug according to Claim 1, wherein the sealing portion is formed
- 2 at a front end of the housing.
 - 5. A glow plug according to Claim 1,
- 2 the heater being a ceramic heater;
- 3 the center electrode being mechanically connected with the housing so as
- 4 to become axially displaced together with the housing; and
- 5 the glow plug further comprising an insulating member to provide an
- 6 electrical insulation between the center electrode and the housing.
- 1 6. A glow plug according to Claim 1, wherein the pressure-sensitive
- 2 element is ring-shaped and has an inner diameter smaller than that of the plug case.
- 1 7. A glow plug for an internal combustion engine, comprising:
- an outer plug housing having a first sealing face formed on an inner
- 3 surface thereof;
- an inner plug housing held in the outer plug housing and having a second
- 5 sealing face engaged with the first sealing face to form an airtight seal between
- 6 the inner and outer plug housings;
- a center electrode disposed in the inner plug housing and having a rear
- 8 end portion projecting from a rear end of the inner plug housing and a radially

9 outward protrusion formed on an outer surface of the rear end portion, the center electrode being under compressive stress to press the protrusion against the rear 10 end of the housing; 11 12 an insulating member interposed between the rear end of the housing and the protrusion of the center electrode to keep the housing and the center electrode 13 14 insulated from each other; a sheath having a rear end portion airtightly fixed in the inner plug 15 16 housing and a front end portion to be located in a combustion chamber of the engine so as to receive combustion pressure; 17 18 a heater disposed in the sheath and electrically connected with the center 19 electrode; and 20 a combustion pressure sensor arranged between the rear end portion of the outer plug housing and the rear end portion of the center electrode and having 21 22 a pressure-sensitive element that generates an electrical signal in response to 23 variations in the combustion pressure.

- 1 8. A glow plug according to Claim 7,
- the outer plug housing having an inward protrusion protruding radially inwardly from the rear end portion of the outer plug housing;
- the center electrode having a second radially outward protrusion formed on the rear end portion of the center electrode; and
- the pressure-sensitive element being placed between a front surface of the inward protrusion and a rear surface of the second outward protrusion.
- 9. A glow plug according to Claim 8, wherein the first mentioned outward protrusion is located in a front side of the second outward protrusion.
- 1 10. A glow plug according to Claim 7,
- 2 the combustion pressure sensor further including an output electrode
- 3 having a portion projecting radially outwardly from the outer plug housing, and
- 4 the glow plug further comprising:

a lead having a front portion connected to the projecting portion of the
output electrode and extending axially rearwardly; and
a protective cover covering therein the rear end portion of the outer plug
housing, the projecting portion of the output electrode and the front portion of the
lead and having an open rear end through which the lead extends externally of the
protective cover.